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SEWAGE AND WATER WORKS CONSTRUCTION, 1962

William H. Mills, Jr., et al

Public Health Service
Washington, D. C.

April 1963

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I

PREFACE

This annual report of "Sewage and Water Works Construction 1962" is published as one part of the basic data program required and authorized in Public Law 660 (as amended by Public Law 87-88), the Federal Water Pollution Control Act.

The data published herein provide a continuing and ready source of information and reference as to how successfully the national needs in municipal water supply and pollution control are being met through construction of the necessary physical facilities.

This publication also establishes important year-to-year cost trends in the national economic picture in the three types of public works construction involved. Such data are valuable not only to Federal, State and local government authorities and officials responsible for providing water supplies and for controlling pollution, but are also valuable to the building and contracting trades and to the engineering profession.

This report was prepared by William H. Mills, Jr., Assistant Sanitary Engineer (R), and Elsie M. Gibson and Florence G. Simmons, Statistical Assistants, under the direction of Richard S. Green, Sanitary Engineer Director and Chief of the Basic Data Branch, Division of Water Supply and Pollution Control.

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SECTION 1—GENERAL PRESENTATION OF SEWAGE AND WATER WORKS CONTRACT AWARDS

A. CONTRACT AWARDS—1962

Contract awards in the sewage and water works field in 1962 reached a level of more than $1.3 billion, a slight drop from the previous year's figure. The total dollar value in millions is broken down as follows:

Sewage treatment	$545.0
Collecting sewers	320.2
Water works	507.3
	$1,372.5

Contracts associated with sewage treatment were awarded at a record level, showing a 21 percent increase over the figure for 1961. Both collecting sewer and water works contract awards levels dropped moderately in 1962. Annual figures show a 16 percent drop from 1961 figures for collecting sewer contracts, and a 12 percent drop from 1961 figures for water works contracts.

Each of the above totals is based upon an identified and an apportioned figure. The identified contracts are those for which the descriptive information available clearly states a single type of construction. Those contracts that cover more than a single type are called "combination" contracts. These combination contracts are then apportioned to the sewage treatment works, collecting sewers, and water works categories on the basis of known national experience in each of these.

On a constant dollar basis, the total dollar value of contract awards in the sewage and water works fields in 1962 was less than that of 1961 by $52 million. Sewage works contracts were a record high for the eleven year period since 1952. Both collecting sewer and water works construction dropped substantially from the previous level, more than counteracting the rise in sewage treatment contracts.

A comparison of constant dollar values with current dollar values illustrates the effect of the rapid increase in construction costs.

B. METHOD OF DATA COLLECTION

The contract award data presented in this publication for the year 1962 result from the careful examination of over 25,000 contract notifications in the sewage and water works construction and related fields. All notifications of similar contracts awarded in the same geographical area are checked to reduce the chance of duplication. Certain contracts, primarily those covering sewage treatment plants, are checked and verified by the various State water pollution control agencies.

The data on which this report is based were obtained from:

1. F. W. Dodge Corporation, daily reports on construction in the sewage and water works fields in the 38 Eastern States.
2. Construction Daily Reports, McGraw-Hill Company, New York.
3. Various construction news periodicals, such as, *Construction News Bulletin, Pacific Architect and Builder, Rocky Mountain Construction, and Southwest Builder and Contractor.*

Practically all of the information for the 38 Eastern States is obtained from daily reports of the F. W. Dodge Corporation.

The data presented are composed of contracts awarded by municipalities, special districts, other governmental bodies, and various institutions, resorts, recreation centers, etc. A few contracts are included for industries where the cost of such facilities can be readily identified, and where it is possible to ascertain that the facilities are primarily for the disposal of sanitary wastes or for domestic water works facilities.

TABLE 1.—*Annual Contract Awards—Sewage Treatment Works, Collecting Sewers, and Waterworks—1952 to 1962*

[Millions of dollars]

Year	Sewage treatment		Collecting sewers		Waterworks		Total	
	Actual	1955	Actual	1955	Actual	1955	Actual	1955
1952	137	159	225	261	227	263	589	683
1953	187	206	286	314	283	311	756	831
1954	229	241	244	256	293	308	766	805
1955	301	301	301	301	394	394	896	896
1956	354	338	305	291	441	420	1,100	1,049
1957	351	320	247	225	457	416	1,055	961
1958	389	338	310	269	419	364	1,118	971
1959	349	289	336	278	504	417	1,189	984
1960	359	287	359	288	645	516	1,363	1,091
1961	449	349	390	296	573	446	1,402	1,091
1962	545	412	359	242	567	384	1,373	1,039

NOTES:

1. The *Engineering News-Record* Construction Cost Index is used to change actual dollars to 1955 dollars.
2. The Public Health Service sewage treatment data prior to 1957 are composed of identified contracts only. Beginning with 1957, the figures include an amount apportioned to sewage treatment works from the "combination" contracts.
3. Data on collecting sewers prior to 1957 are obtained by subtracting Public Health Service sewage treatment data from the U.S. Department of Commerce sewer data which includes sanitary and storm sewerage systems as well as sewage treatment works. Beginning with 1957, the data for collecting sewers were assembled by the Public Health Service and do *not* include storm sewers.
4. The waterworks data prior to 1957 are based on records maintained by the U.S. Department of Commerce. Beginning with 1957, data were obtained by the Public Health Service.

TABLE 2.—*Monthly Contract Awards—Sewage Treatment Works, Collecting Sewers, and Water Works—1962*

[Millions of dollars]

	Sewage treatment		Collecting sewers		Water works		Total	
	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative
January	48.8	48.8	23.1	23.1	43.5	43.5	115.4	115.4
February	31.5	80.3	21.7	44.8	28.4	71.9	81.6	197.0
March	49.8	130.1	20.9	65.7	40.4	112.3	111.1	308.1
April	60.2	190.3	26.1	91.8	31.3	143.6	117.6	425.7
May	69.9	260.2	27.8	119.6	48.3	191.9	146.0	571.7
June	34.3	294.5	31.6	151.2	60.7	252.6	126.6	698.3
July	39.3	333.8	41.7	192.9	40.5	293.1	121.5	819.8
August	36.5	370.3	29.8	222.7	61.3	354.4	127.6	947.4
September	68.0	438.3	24.0	246.7	42.0	396.4	134.0	1,081.4
October	27.2	465.5	27.1	273.8	40.2	436.6	94.5	1,175.9
November	39.2	504.7	18.0	291.8	33.8	470.4	91.0	1,266.9
December	40.3	545.0	28.4	320.2	36.9	507.3	105.6	1,372.5

TABLE 3.—*1962 Contract Awards By States*

State	Total		Sewage treatment		Sewers		Water		Combinations	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Alabama	103	14,195,788	22	3,174,000	25	5,541,796	49	5,337,731	7	142,171
Alaska	20	5,081,764	1	6,179	5	910,448	13	4,114,687	1	50,459
Arizona	80	10,471,765	5	1,764,348	33	3,626,012	35	4,438,824	7	642,581
Arkansas	91	6,559,736	37	2,376,835	12	685,120	39	2,622,350	3	871,431
California	1,226	181,172,433	117	51,935,231	535	30,713,241	499	86,262,637	75	12,261,324
Colorado	110	21,417,432	17	2,357,852	11	1,317,076	78	17,219,909	4	522,595
Connecticut	122	20,202,163	13	7,071,011	71	7,843,009	35	3,874,169	2	1,503,974
Delaware	17	2,025,780	6	1,648,399	6	269,596	4	62,536	1	45,249
District of Columbia	35	14,001,802	12	12,014,927	12	1,136,925	5	147,091	6	702,859
Florida	270	45,331,540	50	10,461,870	68	11,185,265	110	11,754,715	42	11,929,690
Georgia	127	12,973,231	19	4,566,839	25	2,083,004	62	4,523,804	21	1,799,584
Hawaii	41	10,224,452	15	6,371,393	6	866,626	16	2,738,621	4	217,812
Idaho	26	3,748,334	6	937,001	7	1,122,148	12	1,654,450	1	34,735
Illinois	412	62,248,323	93	28,353,164	105	11,040,370	187	19,829,029	27	3,025,760
Indiana	214	56,782,439	43	35,509,261	87	8,470,039	82	12,791,172	2	11,967
Iowa	172	13,868,036	42	4,668,956	64	3,464,005	63	5,292,514	3	442,561
Kansas	225	15,105,267	31	3,368,875	108	6,381,407	88	5,073,211	3	281,774
Kentucky	114	16,703,975	23	3,546,254	50	4,766,288	59	7,226,951	12	1,164,482
Louisiana	123	18,904,605	36	9,302,077	14	2,027,920	55	4,978,338	18	2,596,270
Maine	28	2,127,250	7	1,380,505	13	382,290	6	249,455	2	115,000
Maryland	417	27,092,765	23	3,501,166	66	3,268,091	63	10,709,200	265	9,614,308
Massachusetts	245	31,902,874	26	15,119,996	78	6,992,281	126	6,549,281	15	3,241,316
Michigan	356	87,741,736	42	44,371,355	109	11,517,151	158	24,573,981	47	7,279,249
Minnesota	260	30,253,729	32	4,887,552	61	8,606,806	115	11,961,354	52	4,796,017
Mississippi	117	12,278,438	31	3,786,071	17	1,780,498	56	6,268,671	13	443,198
Missouri	249	26,721,397	45	7,402,045	91	8,176,203	101	9,908,721	12	1,234,428
Montana	28	4,046,469	9	2,759,089	6	178,948	10	935,149	3	173,283
Nebraska	291	14,632,881	59	8,924,628	116	2,511,291	102	2,725,277	14	471,685
Nevada	36	4,493,229	13	2,068,208	5	170,990	18	2,254,031	2	101,487
New Hampshire	22	2,020,631	8	1,454,611	4	138,611	8	326,522		
New Jersey	241	44,959,147	31	7,271,203	105	8,866,732	78	15,547,628	27	13,243,584
New Mexico	24	4,007,536	9	2,725,493	2	39,140	6	556,456	7	776,449
New York	631	106,694,746	72	42,839,920	165	19,444,999	353	40,416,218	41	3,993,609
North Carolina	186	26,355,280	59	12,157,083	35	3,366,039	69	7,843,533	23	2,988,634
North Dakota	31	1,842,124	14	781,784	7	129,343	19	491,687	11	439,310
Ohio	429	57,928,963	51	17,099,431	148	18,624,145	204	18,902,860	26	3,302,527
Oklahoma	190	15,483,151	43	2,343,615	37	1,384,406	99	11,147,462	11	607,668
Oregon	116	11,725,231	33	4,228,589	38	2,863,083	39	3,720,880	6	912,679
Pennsylvania	498	68,464,220	114	22,453,010	160	23,919,867	191	15,880,162	33	6,211,181
Puerto Rico	12	3,081,776	10	2,697,252	1	36,116			1	348,408
Rhode Island	26	1,119,462	1	13,474	12	677,016	13	428,972		
South Carolina	91	13,222,614	23	2,446,648	11	1,035,292	52	8,849,831	5	890,843
South Dakota	45	2,306,715	10	1,112,842	12	162,522	21	932,664	2	98,687
Tennessee	156	20,904,267	36	6,162,485	41	5,130,191	72	9,100,270	7	511,321
Texas	924	87,654,401	94	14,854,044	238	19,584,130	490	42,935,806	102	10,280,419
Utah	33	5,026,432	5	1,001,102	4	1,467,205	21	2,292,884	3	265,241
Vermont	12	2,192,607	5	1,740,901			5	381,206	2	70,500
Virginia	212	21,456,932	48	7,582,664	71	4,963,897	54	4,437,526	39	4,472,845
Washington	251	44,090,296	43	22,735,460	69	9,268,057	131	11,621,802	8	464,977
West Virginia	77	12,974,637	31	8,022,626	13	1,602,309	32	3,295,388	1	54,314
Wisconsin	420	41,280,093	54	17,536,149	146	12,608,759	156	8,909,465	73	2,747,720
Wyoming	19	5,287,914	3	140,274	2	58,523	11	4,405,484	3	685,633
Total	10,260	1,372,568,819	1,672	483,035,828	3,122	281,884,626	4,370	488,562,567	1,096	119,085,798

TABLE 4.—*1962 Contract Awards (Distributed) By States*

State	Total	Sewage treatment	Sewers	Water
Alabama	$14,195,788	$3,248,113	$5,587,551	$5,360,124
Alaska	5,081,764	32,442	926,687	4,122,635
Arizona	10,471,765	2,098,917	3,835,316	4,540,032
Arkansas	6,559,736	2,830,558	969,576	2,759,602
California	181,172,433	58,319,260	34,659,345	88,193,828
Colorado	21,417,432	2,629,948	1,485,265	17,302,219
Connecticut	20,292,163	7,854,076	8,327,038	4,111,049
Delaware	2,025,780	1,671,959	284,159	69,662
District of Columbia	14,001,802	12,380,880	1,363,129	257,793
Florida	45,331,540	16,673,229	15,024,638	13,633,673
Georgia	12,973,231	5,503,817	2,662,170	4,807,244
Hawaii	10,224,452	6,484,800	966,725	2,772,927
Idaho	3,748,334	955,086	1,133,327	1,659,921
Illinois	62,248,323	29,928,568	12,014,161	20,305,594
Indiana	56,782,439	35,515,492	8,473,890	12,793,057
Iowa	13,868,036	4,899,382	3,606,436	5,362,218
Kansas	15,105,267	3,515,585	6,472,091	5,117,591
Kentucky	16,703,975	4,152,558	5,141,057	7,410,360
Louisiana	18,904,605	10,653,861	2,863,487	5,387,257
Maine	2,127,250	1,440,381	419,301	267,568
Maryland	27,092,765	8,506,989	6,362,297	12,223,479
Massachusetts	31,902,874	16,807,632	8,035,445	7,059,797
Michigan	87,741,736	48,161,397	13,859,857	25,720,482
Minnesota	30,253,729	7,385,706	10,150,968	12,717,055
Mississippi	12,278,438	4,016,828	1,923,134	6,338,476
Missouri	26,721,397	8,044,787	8,573,483	10,103,147
Montana	4,046,469	2,849,311	234,716	962,442
Nebraska	14,632,881	9,170,217	2,663,095	2,799,569
Nevada	4,493,229	2,068,208	170,990	2,254,031
New Hampshire	2,020,631	1,507,452	170,673	342,506
New Jersey	44,959,147	14,166,659	13,158,961	17,633,527
New Mexico	4,097,538	3,129,762	289,027	678,749
New York	106,694,746	44,919,248	20,730,276	41,045,222
North Carolina	26,355,289	13,713,157	4,327,881	8,314,251
North Dakota	1,842,124	1,010,517	270,728	560,879
Ohio	57,928,963	18,818,938	19,687,009	19,423,016
Oklahoma	15,483,151	2,660,006	1,579,974	11,243,171
Oregon	11,725,231	4,703,788	3,156,814	3,864,629
Pennsylvania	68,464,220	25,686,948	25,918,833	16,858,439
Puerto Rico	3,081,776	2,878,655	148,245	54,876
Rhode Island	1,119,462	13,474	677,016	428,972
South Carolina	13,222,614	2,910,478	1,321,995	8,990,141
South Dakota	2,306,715	1,164,225	194,283	948,207
Tennessee	20,904,267	6,428,711	5,294,751	9,180,805
Texas	87,654,401	20,206,687	22,892,713	44,555,001
Utah	5,026,432	1,139,203	1,552,568	2,334,661
Vermont	2,192,607	1,777,608	22,689	392,310
Virginia	21,456,932	9,911,513	6,403,408	5,142,011
Washington	44,060,296	22,977,557	9,417,702	11,095,037
West Virginia	12,974,637	8,650,905	1,619,789	3,303,943
Wisconsin	41,280,093	18,966,788	12,911,067	9,402,238
Wyoming	5,287,914	497,258	277,183	4,513,473
Total	1,372,568,819	545,039,504	320,210,419	507,318,896

SECTION II—CONTRACT AWARDS—BASIC DATA—1962

This section presents the basic data as compiled; combination projects have not been apportioned. Tables of contract awards by population size groups, contract size groups, drainage basins and States are included.

The population size group tables do not refer to the population served. They represent the size of the community in which each contract was awarded. The population size groups of some contracts were unknown; these contracts consist primarily of schools, hospitals, military bases, and parks. The cumulative percentages shown in these tables are based on the known population groups.

A. SEWAGE TREATMENT WORKS CONSTRUCTION

The sewage treatment works are presented in two categories, namely, NEW PLANT and OTHER. The "NEW PLANT" classification includes stabilization ponds and appurtenances. The "OTHER" category includes replacements and additions to existing treatment plants, interceptors, and outfalls. This category also includes contracts whose costs cannot be separated between "New Plant" and "Other." Therefore, the "Other" classification may include a few new plants.

In 1961 the level of contracts awarded for construction of sewage treatment works in the United States reached a level of $545.0 million. Of this amount $483.0 million covered contracts identified as to specific location and type of construction. The following tables, 5 through 8, inclusive, relate only to contracts individually identified for sewage treatment facilities.

Lists of the locations of contract awards for sewage treatment works are available upon request. Write to Chief, Basic Data Branch, Division of Water Supply and Pollution Control, U.S. Public Health Service, Washington 25, D.C.

TABLE 5.—*Contract Awards—Sewage Treatment Works Construction—1962—By Population Size Groups*

Population size group	Total				New Plants				Other[1]			
	Number	Dollars	Cumulative (percent)[2]		Number	Dollars	Cumulative (percent)[2]		Number	Dollars	Cumulative (percent)[2]	
			Number	Dollars			Number	Dollars			Number	Dollars
Unknown population size	162	10,410,700			87	3,884,014			75	6,526,686		
Under 500	106	4,414,615	7.0	0.9	58	2,590,156	12.3	2.3	48	1,818,459	4.6	0.5
500–1,000	142	8,362,318	16.4	2.7	74	5,091,174	27.9	6.8	68	3,271,144	11.2	1.4
1,000–2,500	229	21,698,150	31.6	7.3	95	10,034,534	48.0	15.7	134	11,633,616	24.1	4.6
2,500–5,000	193	37,836,939	44.4	15.3	71	13,241,231	63.0	27.4	122	24,595,708	35.9	11.4
5,000–10,000	195	51,536,757	57.3	26.2	59	18,604,959	75.5	43.9	136	32,871,798	49.0	20.5
10,000–25,000	187	57,877,932	69.7	38.4	42	22,093,682	84.4	63.4	145	35,784,250	63.0	30.5
25,000–50,000	105	45,679,826	76.7	46.1	22	12,042,465	89.1	74.1	83	33,637,361	71.0	39.9
50,000–100,000	87	29,829,425	82.5	54.4	21	11,848,373	93.5	84.6	66	17,981,052	77.4	44.9
100,000–250,000	86	50,243,682	88.2	65.0	13	10,585,601	98.2	94.0	73	79,658,081	84.4	55.9
250,000 and over	180	165,175,484	100.0	100.0	18	6,870,005	100.0	100.0	162	156,305,479	100.0	100.0
Total	1,672	483,035,828			560	116,952,194			1,112	366,083,674		

[1] Interceptors; outfalls; additions; enlargements, and alterations to plants, etc. [2] Cumulative percentages are based on the known populati[illegible] groups.

TABLE 6.—*Contract Awards—Sewage Treatment Works Construction—1962—Contract Size Groups*

Contract size group (dollars)	Total				New Plants				Other [1]			
	Number	Dollars	Cumulative (percent)		Number	Dollars	Cumulative (percent)		Number	Dollars	Cumulative (percent)	
			Number	Dollars			Number	Dollars			Number	Dollars
Under 10,000	116	672,279	6.9	0.1	40	228,966	7.1	0.2	76	443,313	6.8	0.1
10,000–25,000	226	3,873,300	20.4	0.9	87	1,512,291	22.6	1.5	139	2,361,009	19.3	0.7
25,000–50,000	280	10,209,983	37.1	3.0	107	3,991,441	41.7	4.8	173	6,209,542	34.9	2.4
50,000–100,000	291	21,477,085	54.7	7.4	110	7,863,516	61.3	11.5	184	13,583,569	51.4	6.1
100,000–250,000	351	56,484,841	75.7	19.1	106	16,735,057	80.2	25.8	245	39,749,784	73.4	17.0
250,000–500,000	204	72,762,904	87.9	34.2	55	19,853,130	90.0	42.8	149	52,929,774	86.8	31.5
500,000–1,000,000	121	85,627,691	95.1	51.5	43	29,222,139	97.7	67.8	78	56,405,561	93.8	48.4
1,000,000–5,000,000	71	145,043,634	99.3	81.5	10	21,312,778	99.5	87.7	61	123,730,856	99.3	79.7
Over 5,000,000	9	88,893,111	100.0	100.0	2	14,312,885	100.0	100.0	7	74,580,226	100.0	100.0
Total	1,672	483,035,828			560	116,952,194			1,112	366,083,634		

[1] Interceptors; outfalls; additions, enlargements, and alterations to plants, etc.

TABLE 7.—*Contract Awards—Sewage Treatment Works Construction—1962—By Drainage Basins*

Drainage basin	Total		New Plants		Other [1]	
	Number	Dollars	Number	Dollars	Number	Dollars
Northeast	111	37,823,519	30	10,732,249	81	26,701,270
North Atlantic	197	77,298,287	72	14,382,734	125	62,915,553
Southeast	192	35,454,515	75	12,514,299	117	22,940,216
Tennessee River	21	2,572,241	13	1,286,745	8	1,285,496
Ohio River	180	55,080,981	77	23,077,153	103	32,003,828
Lake Erie	21	5,288,122	6	1,637,905	15	3,650,217
Upper Mississippi	199	42,171,771	70	8,232,956	128	33,938,815
Western Great Lakes	83	73,552,288	19	9,775,950	64	63,776,338
Missouri River	146	21,713,228	50	4,729,802	80	16,983,426
Southwest Lower Mississippi	161	19,874,943	55	4,630,134	106	15,244,809
Colorado River	22	4,080,567	2	316,303	20	3,774,264
Western Gulf	100	16,107,813	30	4,922,483	70	11,185,330
Pacific Northwest	88	30,059,285	26	13,736,209	62	16,323,076
California	113	51,233,287	19	3,489,095	94	47,744,192
Great Basin	11	1,930,226	2	914,326	9	1,015,900
Alaska	1	6,170			1	6,170
Hawaii	15	6,371,393	3	2,417,609	12	3,953,784
Puerto Rico	10	2,697,252	2	156,211	8	2,541,041
Total	1,672	483,035,828	560	116,952,194	1,112	366,083,634

[1] Interceptors, outfalls, additions, enlargements, and alterations to plants, etc.

TABLE 8.—*Contract Awards—Sewage Treatment Works Construction—1962—By States*

State	Total		New Plants		Other [1]	
	Number	Dollars	Number	Dollars	Number	Dollars
Alabama	22	3,174,060	9	691,758	13	2,482,332
Alaska	1	6,170			1	6,170
Arizona	5	1,764,348			5	1,764,348
Arkansas	37	2,376,855	14	537,737	23	1,839,098
California	117	51,935,231	19	3,489,085	98	48,446,136
Colorado	17	2,357,852	7	1,072,960	10	1,284,892
Connecticut	13	7,071,011	5	4,548,118	8	2,522,893
Delaware	6	1,648,399			6	1,648,399
District of Columbia	12	12,014,927			12	12,014,927
Florida	50	10,461,870	22	3,395,992	28	7,065,878
Georgia	19	4,566,839	4	2,422,701	15	2,144,138
Hawaii	15	6,371,393	3	2,417,600	12	3,953,793
Idaho	6	957,001	3	783,205	3	153,796
Illinois	93	28,353,164	24	3,276,849	69	25,076,315
Indiana	43	35,509,261	15	2,891,152	28	32,618,109
Iowa	42	4,668,956	17	1,283,915	25	3,385,041
Kansas	31	3,368,875	14	547,311	17	2,821,564
Kentucky	23	3,596,254	8	1,093,760	15	2,462,494
Louisiana	36	9,302,077	10	1,730,935	26	7,571,142
Maine	7	1,380,505	3	815,640	4	564,865
Maryland	23	3,501,105	4	196,501	19	3,304,575
Massachusetts	26	15,119,995			26	15,119,995
Michigan	42	44,371,355	7	4,403,956	35	39,967,399
Minnesota	32	4,887,552	15	2,615,958	17	2,271,594
Mississippi	31	3,786,071	13	880,166	18	2,905,908
Missouri	45	7,402,045	18	2,096,584	27	5,305,461
Montana	9	2,750,089	2	988,464	7	1,760,625
Nebraska	59	8,924,628	25	1,334,939	34	7,589,689
Nevada	13	2,068,208			13	2,068,208
New Hampshire	8	1,454,641	1	46,153	7	1,408,488
New Jersey	31	7,271,208	15	4,214,425	16	3,056,778
New Mexico	9	2,725,493	3	494,110	6	2,231,383
New York	72	42,859,920	22	4,789,355	50	38,050,565
North Carolina	59	12,157,083	23	4,788,983	36	7,368,100
North Dakota	14	781,784	5	33,449	9	748,335
Ohio	51	17,069,431	15	10,177,072	36	6,922,359
Oklahoma	43	2,343,615	13	310,606	30	2,033,009
Oregon	33	4,228,589	8	761,868	25	3,466,721
Pennsylvania	114	22,453,010	64	12,947,228	50	9,505,782
Puerto Rico	10	2,697,252	2	156,211	8	2,541,041
Rhode Island	1	13,474			1	13,474
South Carolina	23	2,446,648	9	616,356	14	1,830,292
South Dakota	10	1,112,842	6	804,954	4	307,888
Tennessee	36	6,162,485	18	3,683,496	18	2,478,989
Texas	94	14,854,044	27	4,454,699	67	10,399,345
Utah	5	1,601,102	2	914,326	3	86,776
Vermont	5	1,740,901	2	1,048,403	3	692,498
Virginia	48	7,582,664	17	2,568,448	31	5,014,216
Washington	43	22,735,460	13	11,192,672	30	11,542,788
West Virginia	31	8,022,626	15	4,541,089	16	3,481,537
Wisconsin	54	17,536,149	19	4,582,998	35	12,553,151
Wyoming	3	140,274			3	140,274
Total	1,672	483,035,828	560	116,952,194	1,112	366,083,634

[1] Interceptors, outfalls, additions, enlargements, and alterations to plants, etc.

B. COLLECTING SEWER CONSTRUCTION

Collecting sewer construction for 1962 totaled $320.2 million. Tables 9, 10, and 11 analyze the contract award data which was specified as purely collecting sewers (i.e., $281.9 million), and do not reflect any portion of the combination projects. The tabulation of the collecting sewer contract awards by States appears in table 3 of section I.

The collecting sewer classification does *not* include storm sewers.

TABLE 9.—*Contract Awards—Collecting Sewer Construction—By Population Size Groups*

Population size group	Collecting sewers			
	Number	Dollars	Cumulative percent[1]	
			Number	Dollars
Unknown population size	135	4,945,160		
Under 500	51	4,596,526	1.7	1.7
500-1,000	86	8,383,124	4.6	4.7
1,000-2,500	166	15,861,364	10.2	10.4
2,500-5,000	196	17,714,569	16.8	16.8
5,000-10,000	281	27,851,599	26.2	26.9
10,000-25,000	449	36,214,859	41.2	40.0
25,000-50,000	304	30,077,004	51.4	50.9
50,000-100,000	334	24,226,655	62.6	59.6
100,000-250,000	324	29,517,585	73.4	70.3
250,000 and over	796	82,496,181	100.0	100.0
Total	3,122	281,884,626		

[1] Cumulative percentages are based on the known population groups.

TABLE 10.—*Contract Awards—Collecting Sewer Construction—By Contract Size Groups*

Contract size group (dollars)	Collecting sewers			
	Number	Dollars	Cumulative percent	
			Number	Dollars
Under 10,000	584	3,095,909	18.7	1.1
10,000-25,000	758	12,544,521	43.0	5.6
25,000-50,000	556	20,022,495	60.8	12.7
50,000-100,000	517	38,011,038	77.4	26.2
100,000-250,000	446	67,457,215	91.7	50.1
250,000-500,000	171	58,721,393	97.2	70.9
500,000-1,000,000	71	48,333,102	99.5	88.0
1,000,000-5,000,000	18	25,802,305	99.9	97.2
Over 5,000,000	1	7,896,648	100.0	100.0
Total	3,122	281,884,626		

TABLE 11.—*Contract Awards—Collecting Sewer Construction—1962—By Drainage Basin*

Drainage basin	Collecting sewers		Drainage basin	Collecting sewers	
	Number	Dollars		Number	Dollars
Northeast	284	26,040,477	Colorado River	40	4,006,529
North Atlantic	399	47,934,577	Western Gulf	231	19,006,244
Southeast	173	22,630,345	Pacific Northwest	113	13,221,591
Tennessee River	25	4,685,151	California	515	29,714,329
Ohio River	278	29,128,595	Great Basin	23	2,285,287
Lake Erie	93	9,519,449	Alaska	5	910,448
Upper Mississippi	297	28,710,062	Hawaii	6	896,626
Western Great Lakes	240	23,472,828	Puerto Rico	1	36,116
Missouri River	249	11,929,728			
Southwest Lower Mississippi	150	7,755,244	Total	3,122	281,884,626

C. WATER WORKS CONSTRUCTION

The water works data are broken down into four categories, namely, SOURCE, TREATMENT, DISTRIBUTION, and MISCELLANEOUS. The "SOURCE" group includes contracts awarded for wells, surface source development, and transmission lines. The "TREATMENT" area includes contracts for plants and auxiliary facilities. The "DISTRIBUTION" category includes contracts for ground storage, elevated tanks, and distribution systems. The "MISCELLANEOUS" classification includes contracts for pumping facilities and for water systems in general. When it is not possible to code a contract that is known to pertain to water into source, treatment, or distribution then it is included in the totals for miscellaneous.

Contract awards for water works construction in 1962, including an apportioned amount from the combination contracts, totaled $507.3 million. The tables following refer only to contracts that pertain exclusively to water works (i.e., $488.6 million).

TABLE 12.—*Contract Awards—Water Works Construction—1962—By Population Size Groups*

Population size group	Total		Source		Treatment		Distribution		Miscellaneous [1]	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Unknown population size	342	16, 966, 178	106	2, 348, 959	18	3, 011, 209	139	6, 413, 380	79	5, 192, 630
Under 500	261	20, 906, 747	58	7, 078, 913	17	3, 165, 512	129	6, 673, 785	57	3, 988, 537
500–1,000	239	12, 528, 355	50	1, 577, 304	19	1, 005, 372	134	8, 451, 525	36	1, 494, 154
1,000–2,500	392	32, 690, 461	69	13, 300, 073	32	2, 907, 520	228	10, 815 013	63	5, 667, 855
2,500–5,000	374	29, 070, 734	59	4, 401, 820	24	9, 124, 676	237	10, 984, 936	54	4, 559, 302
5,000–10,000	444	42, 090, 849	69	6, 551, 390	30	6, 602, 281	282	20, 061, 876	63	8, 855, 302
10,000–25,000	643	80, 089, 479	112	24, 065, 468	36	15, 657, 593	402	29, 338, 933	93	11, 007, 485
25,000–50,000	416	51, 752, 412	80	19, 177, 862	24	5, 969, 480	258	19, 184, 921	54	7, 420, 149
50,000–100,000	297	61, 696, 353	58	18, 870, 581	15	12, 640, 205	187	17, 755, 702	37	12, 431, 865
100,000–250,000	258	34, 697, 497	61	16, 167, 399	9	1, 492, 810	159	12, 892, 961	29	4, 144, 327
250,000 and over	704	106, 071, 502	99	44, 333, 562	17	11, 324, 929	525	40, 819, 881	63	9, 593, 130
Total	4, 370	488, 562, 567	821	157, 893, 331	241	72, 901, 587	2, 680	183, 412, 913	628	74, 354, 736

[1] This includes separate contracts for pumping facilities and other water works contracts that cover more than one of the above divisions.

TABLE 12A.—*Contract Awards—Water Works Construction—1962—By Population Size Groups (Accumulated Percentages)*

Population size group	Total cumulative (percent)		Source cumulative (percent)		Treatment cumulative (percent)		Distribution cumulative (percent)		Miscellaneous [1] cumulative (percent) [2]	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Unknown population size										
Under 500	6.5	4.4	8.1	4.6	7.6	4.5	5.1	3.8	10.4	5.8
500–1,000	12.4	7.1	15.1	5.6	16.1	5.9	10.4	8.6	17.0	8.0
1,000–2,500	22.1	14.0	24.8	14.2	30.4	10.1	19.4	14.7	28.5	16.2
2,500–5,000	31.4	20.2	33.1	17.0	41.2	23.2	28.7	20.9	38.3	22.8
5,000–10,000	42.4	29.1	42.8	21.2	54.7	32.6	39.8	32.2	49.8	35.6
10,000–25,000	58.4	46.1	58.5	36.7	70.8	55.0	55.6	48.8	66.7	51.5
25,000–50,000	68.7	57.1	69.7	49.0	81.6	63.5	65.8	59.6	76.5	62.2
50,000–100,000	76.1	70.2	77.8	61.1	88.3	81.6	73.2	69.6	83.2	80.2
100,000–250,000	82.5	77.6	86.3	71.5	92.3	83.7	79.5	76.9	88.5	86.2
250,000 and over	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

[1] This includes separate contracts for pumping facilities and other water works contracts that cover more than one of the above divisions.
[2] Cumulative percentages are based on the known population groups.

TABLE 13.—*Contract Awards—Water Work. Construction—1962—By Contract Size Groups*

Contract size group (dollars)	Total		Source		Treatment		Distribution		Miscellaneous [1]	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Under 10,000	738	3,799,618	178	882,186	14	78,548	467	2,305,920	79	442,964
10,000–25,000	1,038	16,935,641	214	3,404,548	36	606,554	663	10,901,072	125	2,023,467
25,000–50,000	807	28,819,007	119	4,313,041	41	1,466,667	526	18,560,164	121	4,440,115
50,000–100,000	856	60,489,903	109	7,842,004	41	2,919,246	575	40,267,286	133	9,461,367
100,000–250,000	546	85,725,717	73	11,829,671	47	7,815,208	320	49,360,622	106	16,720,216
250,000–500,000	224	77,240,307	59	21,034,705	31	10,912,709	97	32,804,466	37	12,488,427
500,000–1,000,000	94	65,150,831	36	25,983,613	15	9,994,525	23	15,510,571	20	13,662,122
1,000,000–5,000,000	59	100,306,071	30	49,481,504	14	28,414,697	9	13,573,812	6	8,896,058
Over 5,000,000	6	50,035,472	3	33,122,059	2	10,693,413			1	6,220,000
Total	4,370	488,562,567	821	157,903,331	241	72,901,587	2,680	183,412,913	628	74,354,736

[1] This includes separate contracts for pumping facilities and other water works contracts that cover more than one of the above divisions.

TABLE 13A.—*Contract Awards—Water Works Construction—1962—By Contract Size Groups (Accumulated Percentages)*

Contract size group (dollars)	Total cumulative (percent)		Source cumulative (percent)		Treatment cumulative (percent)		Distribution cumulative (percent)		Miscellaneous [1] cumulative (percent)	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Under 10,000	16.9	0.8	21.7	0.6	5.8	0.1	17.4	1.3	12.6	0.6
10,000–25,000	40.7	4.3	47.8	2.8	20.7	0.9	42.1	7.2	32.5	3.3
25,000–50,000	59.2	10.2	62.3	5.5	37.7	2.9	61.7	17.3	51.8	9.3
50,000–100,000	78.8	22.6	75.6	10.5	54.7	6.9	83.2	39.3	73.0	22.0
100,000–250,000	91.3	40.1	84.5	18.0	74.2	17.6	95.1	66.2	89.9	44.5
250,000–500,000	96.4	55.9	91.7	31.3	87.1	32.6	98.7	84.1	95.8	61.3
500,000–1,000,000	98.6	69.2	96.1	47.8	93.3	46.3	99.6	92.6	99.0	79.7
1,000,000–5,000,000	99.9	89.7	99.8	79.1	99.1	85.3	100.0	100.0	99.9	91.7
Over 5,000,000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

[1] This includes separate contracts for pumping facilities and other water works contracts that cover more than one of the above divisions.

TABLE 14.—*Contract Awards—Water Works Construction—1962—By Drainage Basins*

Drainage basin	Total		Source		Treatment		Distribution		Miscellaneous [1]	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Northeast	379	23,535,184	67	6,296,763	15	1,081,409	242	12,354,308	55	3,802,704
North Atlantic	474	69,014,530	79	31,765,928	19	10,579,061	319	20,745,768	57	5,923,763
Southeast	374	41,547,006	76	8,418,225	36	8,880,656	202	16,971,944	60	7,276,181
Tennessee River	46	7,054,161	7	849,205	3	378,536	29	3,144,063	7	2,682,358
Ohio River	396	32,523,276	60	4,441,419	42	8,340,852	245	13,973,789	49	5,767,216
Lake Erie	94	11,950,825	10	4,141,746	9	2,547,636	68	4,262,562	7	998,881
Upper Mississippi	413	40,787,991	97	5,274,578	28	10,861,278	228	19,471,139	60	7,180,996
Western Great Lakes	283	39,688,998	70	14,221,447	9	7,100,399	184	15,979,310	20	2,487,842
Missouri River	323	31,310,749	66	10,222,663	30	5,163,769	180	11,927,764	47	3,996,553
Southwest Lower Mississippi	316	29,062,854	60	5,592,373	21	7,184,504	188	11,181,180	47	5,104,797
Colorado River	75	8,827,090	17	3,034,606	2	321,741	34	3,086,684	22	2,384,059
Western Gulf	409	40,978,173	61	14,343,418	10	1,729,615	347	20,715,518	51	4,189,622
Pacific Northwest	180	16,978,592	26	3,925,313	3	1,184,785	111	9,058,538	40	2,809,956
California	480	85,734,074	111	44,867,284	10	5,771,669	209	17,749,407	90	17,345,714
Great Basin	39	2,715,766	7	342,510	2	285,190	23	1,622,926	7	465,138
Alaska	13	4,114,687	2	1,624,155	2	1,490,487	6	646,045	3	354,000
Hawaii	16	2,738,621	5	531,607			5	621,966	6	1,584,958
Total	4,370	488,562,567	821	157,903,331	241	72,901,587	2,680	183,412,913	628	74,354,736

[1] This includes separate contracts for pumping facilities and other water works contracts that cover more than one of the above divisions.

TABLE 15.—*Contract Awards—Water Works Construction—1962—By States*

State	Total		Source		Treatment		Distribution		Miscellaneous[1]	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Alabama	49	5,337,731	9	335,971	3	360,200	28	2,010,453	9	2,631,107
Alaska	13	4,114,687	2	1,624,155	2	1,490,487	6	646,045	3	354,000
Arizona	35	4,438,824	6	1,277,405	1	297,741	21	1,877,991	7	985,687
Arkansas	39	2,622,350	7	253,936	2	255,629	21	1,041,013	9	1,071,772
California	499	86,262,637	115	44,918,843	12	6,056,859	284	18,423,622	88	16,863,313
Colorado	78	17,219,909	16	6,622,532	12	4,431,025	35	5,029,616	15	1,136,736
Connecticut	35	3,874,169	11	2,758,943	1	63,890	17	909,776	6	141,560
Delaware	4	62,536	1	925			2	35,411	1	26,200
District of Columbia	5	147,091					5	147,091		
Florida	110	11,754,715	30	2,163,868	13	2,894,432	44	3,809,347	27	2,887,068
Georgia	62	4,523,804	12	1,302,889	4	911,090	40	1,269,678	6	950,147
Hawaii	16	2,738,621	5	531,697			5	621,966	6	1,584,958
Idaho	12	1,654,450	5	137,459			2	299,651	5	1,217,340
Illinois	187	19,829,029	31	2,076,905	15	6,466,294	116	6,353,838	25	4,932,892
Indiana	82	12,791,172	14	2,290,301	7	5,997,125	50	2,743,300	11	1,760,446
Iowa	63	5,292,514	18	501,222	10	2,476,306	24	1,353,160	11	961,826
Kansas	88	5,073,211	12	1,445,146	7	212,498	54	2,933,471	15	458,096
Kentucky	59	7,226,951	6	1,288,146	10	2,362,181	37	2,698,507	6	878,117
Louisiana	55	4,978,338	19	1,304,302	3	387,974	30	2,934,165	3	351,897
Maine	6	249,455			1	29,840	4	202,485	1	17,130
Maryland	63	10,709,300	10	6,771,647	1	300,450	48	3,066,017	4	571,086
Massachusetts	126	6,549,281	24	914,962	1	104,418	77	4,343,370	24	1,186,531
Michigan	158	24,573,981	43	11,712,773	5	876,872	97	9,669,670	13	2,314,666
Minnesota	115	11,961,354	32	438,848	5	2,243,691	67	8,462,314	11	816,501
Mississippi	56	6,268,671	22	2,463,262	3	222,454	24	3,233,646	7	349,309
Missouri	101	9,908,721	25	1,426,226	10	711,038	54	6,861,626	12	909,831
Montana	10	935,149	3	112,607	1	15,500	3	401,088	3	405,954
Nebraska	102	2,725,277	15	348,072	2	137,955	69	1,811,477	16	427,773
Nevada	18	2,254,031	10	1,743,101			2	83,716	6	427,214
New Hampshire	8	326,522	2	36,707	1	13,200	5	276,555		
New Jersey	78	15,547,628	15	3,789,696	6	6,418,897	40	2,823,765	17	2,515,270
New Mexico	6	356,456	2	292,550			3	141,662	1	122,244
New York	353	40,416,218	57	23,089,151	17	2,866,934	248	11,798,102	31	2,662,031
North Carolina	69	7,843,533	14	1,801,934	5	954,242	43	4,267,819	7	819,538
North Dakota	19	491,687	3	56,760	1	3,798	13	415,799	2	15,330
Ohio	204	18,902,860	34	5,068,745	20	3,864,831	132	8,380,411	18	1,588,873
Oklahoma	99	11,147,462	14	1,509,900	9	4,963,071	67	3,358,757	9	1,324,734
Oregon	39	3,720,880	2	489,884			26	2,899,931	11	331,065
Pennsylvania	191	15,880,162	31	1,735,887	9	3,934,130	125	7,525,428	26	2,685,717
Rhode Island	13	428,972	1	66,560			9	269,562	3	92,820
South Carolina	52	8,849,831	5	499,126	8	3,538,238	30	2,882,496	9	1,929,971
South Dakota	21	932,664	6	158,828	2	185,877	10	530,953	3	57,006
Tennessee	72	9,100,270	4	906,996	9	2,149,811	53	4,744,678	6	1,298,785
Texas	460	42,935,808	63	14,729,704	10	1,726,615	360	21,466,570	57	5,072,919
Utah	21	2,292,984	3	290,951			12	1,268,554	6	733,379
Vermont	5	381,206	2	34,401			2	143,468	1	203,337
Virginia	54	4,437,526	6	146,843			37	3,343,839	11	946,844
Washington	131	11,621,802	19	3,297,970	3	1,184,785	83	5,858,956	26	1,280,091
West Virginia	32	3,295,388	6	361,260	4	477,460	13	1,314,198	9	1,142,470
Wisconsin	156	8,969,465	30	651,950	6	1,311,749	102	6,409,892	18	595,874
Wyoming	11	4,405,484	3	1,947,195			1	141,008	7	2,317,281
Total	4,370	488,562,567	821	157,893,331	241	72,901,587	2,680	183,412,913	628	74,354,736

[1] This includes separate contracts for pumping facilities and other water works contracts that cover more than one of the above divisions.

D. COMBINATION CONSTRUCTION

Combination contracts are made up of projects that cover more than one of the three major categories: (1) Sewage treatment; (2) collecting sewers; and (3) water works. The combination contract awards by States appear in table 3 of section 1.

TABLE 16.—*Contract Awards—Combination Construction—1962—By Population Size Groups*

Population size group	Combinations [1]			
	Number	Dollars	Cumulative Percent	
			Number	Dollars
Unknown population size	100	8,606,105		
Under 500	26	2,681,202	2.6	2.4
500-1,000	34	2,568,151	6.0	4.7
1,000-2,500	50	4,501,332	11.0	8.8
2,500-5,000	74	11,482,225	18.4	19.2
5,000-10,000	69	9,548,033	25.3	27.8
10,000-25,000	123	20,415,705	37.6	46.3
25,000-50,000	86	8,800,959	46.2	54.3
50,000-100,000	73	14,855,607	53.5	67.7
100,000-250,000	82	7,349,369	61.7	74.4
250,000 and over	379	28,217,110	100.0	100.0
Total	1,096	119,085,798		

[1] This includes contracts whose descriptive information covers more than a single cateory of construction (e.g., sewage treatment, sewers, or water works).

Cumulative percentages are based on the known population groups.

TABLE 17.—*Contract Awards—Combination Construction—1962—By Contract Size Groups*

Contract size group (Dollars)	Combinations [1]			
	Number	Dollars	Cumulative (Percent)	
			Number	Dollars
Under 10,000	149	876,750	13.6	0.7
10,000-25,000	285	4,789,217	39.6	4.7
25,000-50,000	217	7,797,542	59.4	11.2
50,000-100,000	192	13,579,569	76.9	22.6
100,000-250,000	150	22,644,865	90.6	41.6
250,000-500,000	59	19,901,175	96.0	58.3
500,000-1,000,000	26	17,084,784	98.4	72.6
1,000,000-5,000,000	18	32,441,896	100.0	100.0
Over 5,000,000			100.0	100.0
Total	1,096	119,085,798		

[1] This includes contracts whose descriptive information covers more than a single category of construction (e.g., sewage treatment, sewers, or water works).

TABLE 18.—*Contract Awards—Combination Construction—1962—By Drainage Basins*

Drainage Basin	Combinations [1]		Drainage Basin	Combinations [1]	
	Number	Dollars		Number	Dollars
Northeast	48	6,493,282	Colorado River	12	1,260,614
North Atlantic	372	35,194,093	Western Gulf	105	10,938,387
Southeast	104	17,923,991	Pacific Northwest	15	1,412,391
Tennessee River	2	77,545	California	72	12,057,977
Ohio River	45	4,801,502	Great Basin	5	408,664
Lake Erie	14	1,611,087	Alaska	1	50,489
Upper Mississippi	110	8,662,081	Hawaii	4	217,812
Western Great Lakes	96	9,438,158	Puerto Rico	1	348,408
Missouri River	42	3,305,321			
Southwest Lower Mississippi	48	4,954,026	Total	1,096	119,085,798

[1] This includes contracts whose descriptive information covers more than one single category of construction (e.g., sewage treatment, sewers, or water works).